

**LITHOGRAPHIC APPARATUS, DEVICE  
MANUFACTURING METHOD, AND COMPUTER-  
READABLE STORAGE MEDIUM**

**ABSTRACT OF THE DISCLOSURE**

5        The change in a property of a lithographic apparatus (e.g. the change in magnification of the projection system due to lens heating effects) is predicted, and when the change since the last time an alignment task was performed is greater than a threshold, an additional alignment task is carried out. A realignment is triggered when the predictive correction, and hence the error in  
10      it, becomes larger than a desired maximum. This avoids unnecessary realignments but ensures that an alignment does occur when likely errors are out of permitted ranges.